

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P652241

Luminaire Tested: **GALN-SA2B-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-840-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6364.7 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

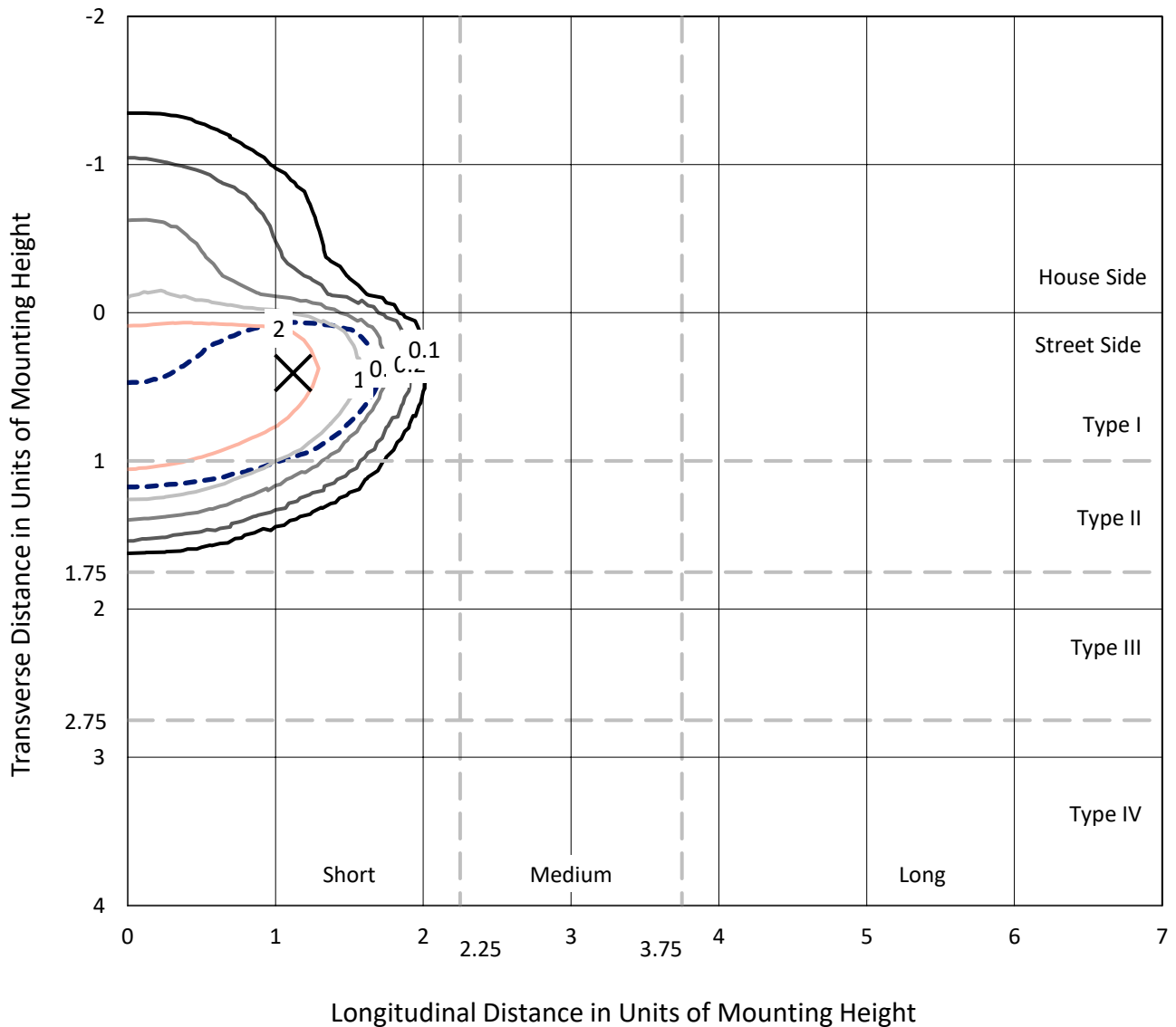
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

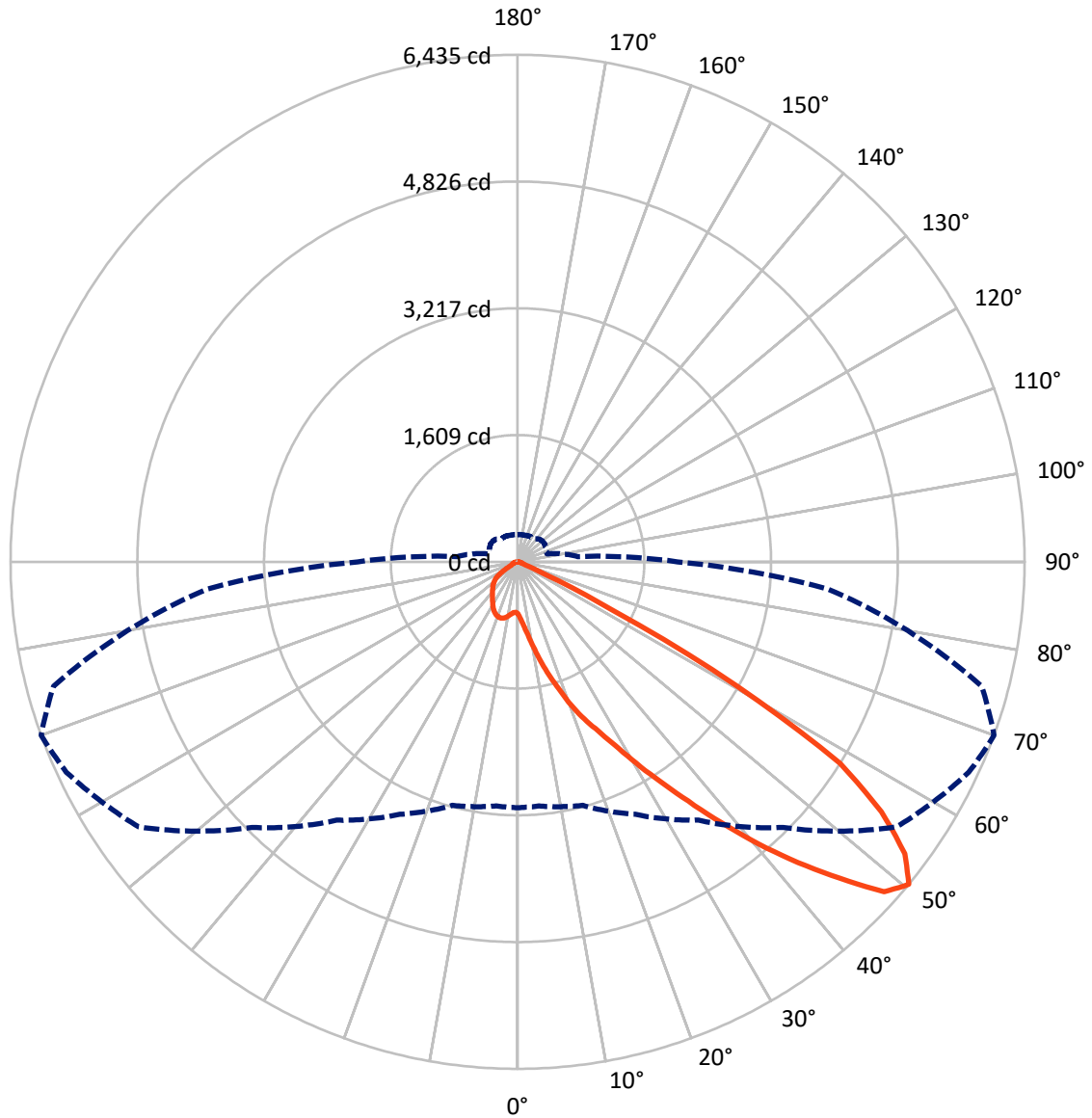
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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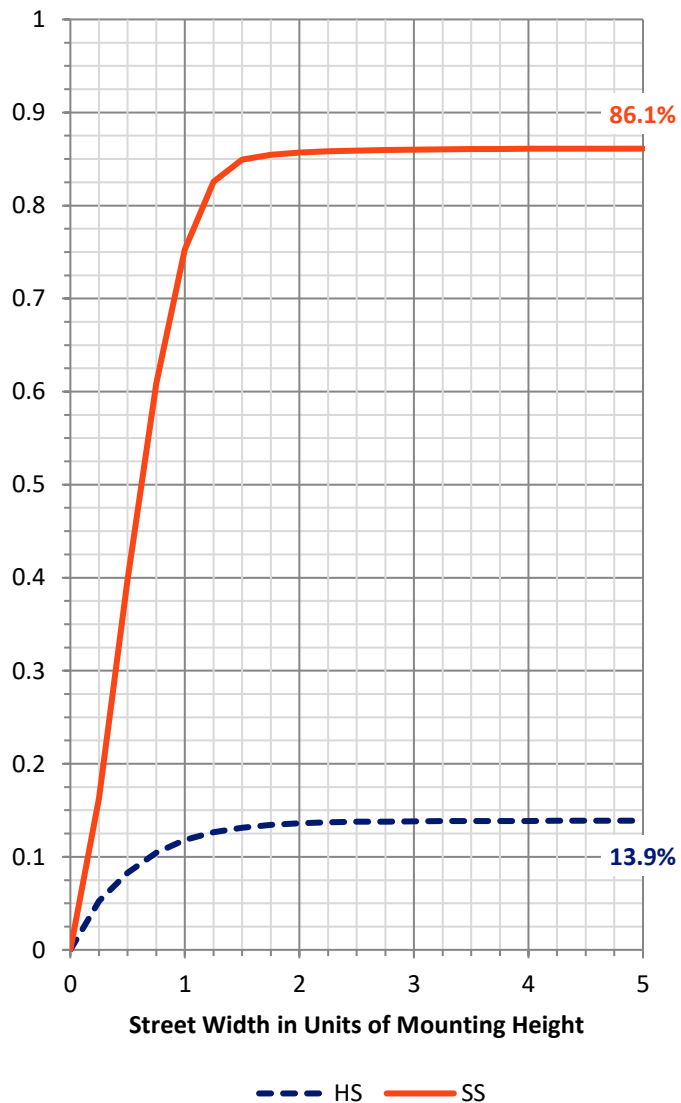
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	888.9	0.0	888.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	5475.8	0.0	5475.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	6364.7	0.0	6364.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	1.3
10°-20°	370.8	5.8
20°-30°	777.9	12.2
30°-40°	1340.9	21.1
40°-50°	1959.7	30.8
50°-60°	1526.3	24.0
60°-70°	258.6	4.1
70°-80°	35.5	0.6
80°-90°	9.2	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6364.7	100.0
0°-180°	6364.7	100.0

Coefficient of Utilization

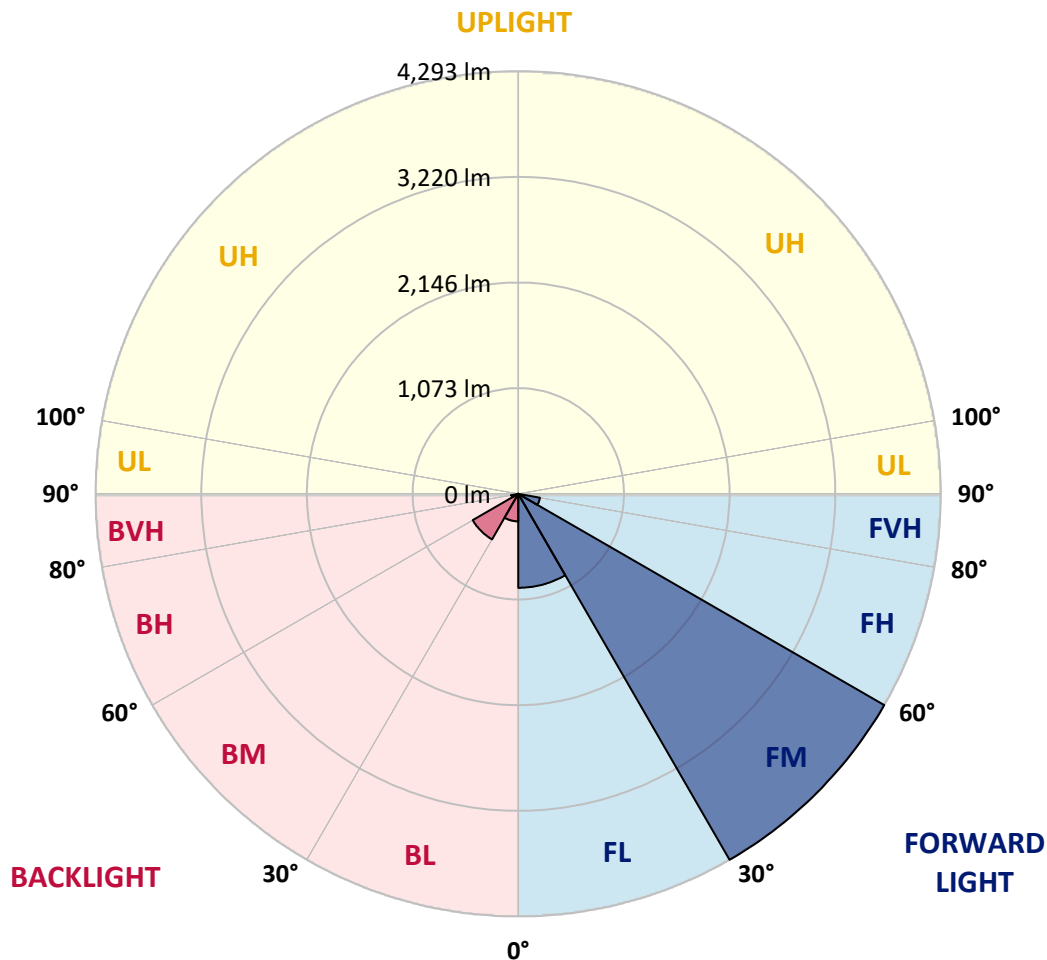


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	954.8	15.0			
FM (30°-60°)	4292.9	67.4			
FH (60°-80°)	223.9	3.5			G0/660
FVH (80°-90°)	4.2	0.1			G0/10
BL (0°-30°)	279.7	4.4	B1/500		
BM (30°-60°)	534.0	8.4	B1/1000		
BH (60°-80°)	70.2	1.1	B0/110		G0/110
BVH (80°-90°)	4.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	659.3	659.3	659.3	659.3	659.3	659.3	659.3	659.3	659.3	659.3	659.3
2.5°	863.3	857.1	843.4	818.3	807.9	782.7	768.1	739.8	722.1	702.2	680.2
5°	1216.0	1183.5	1163.6	1135.4	1052.7	1001.5	916.7	844.4	811.0	774.4	724.1
7.5°	1580.2	1559.2	1532.0	1471.3	1414.8	1308.0	1162.6	1003.6	935.5	872.7	773.3
10°	1881.5	1822.9	1819.8	1774.8	1713.0	1585.4	1410.6	1212.8	1091.4	999.4	843.4
12.5°	2091.8	2038.5	2062.6	2057.3	1999.7	1882.6	1680.6	1418.9	1292.4	1149.0	915.6
15°	2283.3	2261.4	2254.0	2247.7	2224.7	2137.9	1956.8	1670.1	1487.0	1314.3	997.3
17.5°	2470.6	2414.2	2441.3	2446.6	2444.5	2366.0	2196.4	1908.7	1693.1	1489.1	1083.0
20°	2637.0	2642.3	2605.7	2598.3	2592.0	2588.9	2423.6	2145.2	1946.4	1672.2	1195.1
22.5°	2850.5	2813.9	2846.3	2825.4	2784.6	2759.5	2632.8	2354.5	2166.2	1893.0	1309.1
25°	3102.7	3132.0	3055.6	3047.2	3002.2	2915.4	2801.3	2588.9	2377.5	2098.1	1432.6
27.5°	3413.5	3362.2	3342.3	3296.3	3214.6	3178.1	3044.1	2830.6	2632.8	2313.7	1551.9
30°	3680.3	3666.8	3567.3	3512.9	3441.7	3440.7	3253.4	3158.1	2965.6	2651.7	1716.1
32.5°	3898.0	3838.3	3801.7	3764.1	3706.5	3722.2	3564.2	3514.0	3320.4	2965.6	1909.7
35°	4043.4	4000.6	3978.5	3921.0	3904.3	3974.4	3908.5	3887.5	3728.5	3407.2	2136.8
37.5°	4089.4	4103.1	4098.9	4026.7	4062.3	4251.7	4336.4	4282.0	4198.3	3872.9	2382.7
40°	4130.3	4139.7	4118.8	4203.6	4305.1	4520.6	4827.3	4737.3	4705.8	4344.8	2724.9
42.5°	4153.3	4146.0	4146.0	4292.5	4446.3	4879.6	5301.2	5241.6	5217.6	4847.1	3120.4
45°	4053.9	3982.7	4059.2	4258.0	4567.7	5056.4	5680.0	5762.7	5728.2	5444.6	3583.0
47.5°	3682.4	3726.4	3769.3	4035.0	4420.1	5002.0	5912.4	6193.9	6257.7	5946.9	3886.5
50°	3120.4	3111.0	3200.0	3534.9	4002.7	4767.5	5867.4	6318.4	6434.6	6097.6	3950.3
52.5°	2269.7	2338.8	2435.0	2767.8	3322.5	4160.7	5286.6	5997.2	6152.0	5912.4	3908.5
55°	1321.6	1245.3	1461.9	1743.4	2266.6	3138.3	4469.3	5315.9	5602.7	5575.4	3697.0
57.5°	529.5	512.8	587.0	791.1	1182.4	1945.3	3250.2	4367.8	4827.3	5106.6	3249.2
60°	232.3	227.1	266.8	322.3	483.5	896.8	1777.9	2716.5	3195.8	3568.4	2236.2
62.5°	167.4	165.3	185.2	205.1	255.3	390.3	747.1	1094.6	1364.5	1648.1	1001.5
65°	135.0	140.2	153.8	164.3	188.4	216.6	263.7	304.5	373.6	387.2	220.8
67.5°	109.8	114.0	126.7	138.1	142.3	117.2	121.4	106.7	106.7	95.2	76.4
70°	80.6	81.7	96.3	109.8	87.9	47.1	82.7	82.7	74.3	71.1	64.8
72.5°	59.6	60.7	72.2	68.0	34.6	29.3	60.7	66.9	60.7	57.5	52.3
75°	44.0	45.0	37.7	15.7	14.6	18.8	35.6	46.0	44.0	42.9	39.8
77.5°	8.4	6.3	5.2	7.3	10.4	15.7	23.0	28.3	29.3	31.4	29.3
80°	1.0	1.0	3.1	6.3	11.5	16.7	24.1	27.2	28.3	29.3	27.2
82.5°	0.0	1.0	3.1	6.3	11.5	15.7	20.9	24.1	26.2	27.2	26.2
85°	0.0	1.0	2.1	5.2	9.4	11.5	10.4	7.3	6.3	7.3	5.2
87.5°	0.0	0.0	1.0	1.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	659.3	659.3	659.3	659.3	659.3	659.3	659.3	659.3	659.3	659.3	659.3
2.5°	667.7	663.5	648.8	633.1	619.5	625.8	619.5	614.3	616.4	614.3	612.2
5°	704.3	685.4	654.0	640.4	628.9	627.9	624.7	623.7	624.7	624.7	615.3
7.5°	738.8	708.5	675.0	660.3	646.7	647.7	640.4	640.4	639.4	634.1	632.0
10°	791.1	750.3	707.4	681.2	664.5	661.4	654.0	646.7	646.7	646.7	636.2
12.5°	848.7	797.4	738.8	708.5	688.5	672.9	661.4	659.3	647.7	645.6	640.4
15°	898.9	834.0	759.7	717.9	692.7	671.8	654.0	642.5	637.3	634.1	630.0
17.5°	948.1	865.4	771.2	717.9	690.6	666.6	647.7	637.3	624.7	626.8	618.5
20°	1014.0	898.9	774.4	704.3	670.8	647.7	622.6	617.4	610.1	603.8	605.9
22.5°	1077.8	923.0	765.0	687.5	639.4	612.2	599.6	593.3	590.2	585.0	577.6
25°	1135.4	949.2	750.3	657.2	605.9	586.0	574.5	573.5	566.2	566.2	552.5
27.5°	1194.0	958.6	725.2	621.6	576.6	565.1	559.9	557.8	554.6	547.3	537.9
30°	1261.0	961.7	688.5	585.0	550.4	537.9	545.2	550.4	536.8	523.2	527.4
32.5°	1316.4	954.4	644.6	550.4	531.6	525.3	539.9	545.2	529.5	514.9	507.5
35°	1383.4	936.5	601.7	523.2	512.8	525.3	537.9	537.9	506.5	488.7	484.5
37.5°	1484.9	916.7	562.0	500.2	492.9	519.1	535.8	524.3	475.1	453.1	447.9
40°	1593.7	904.2	523.2	477.2	482.4	508.6	518.0	482.4	432.2	418.6	414.4
42.5°	1751.7	879.0	488.7	457.3	473.0	493.9	493.9	430.1	411.2	403.9	402.8
45°	1948.4	861.2	458.3	440.5	459.4	464.7	447.9	402.8	389.3	387.2	388.2
47.5°	2044.7	826.7	427.0	420.7	434.3	435.3	391.4	380.9	369.4	366.3	364.2
50°	2030.1	765.0	386.1	394.5	413.4	402.8	356.8	358.9	348.4	347.4	342.2
52.5°	1927.6	667.7	345.3	365.2	386.1	355.8	328.6	326.5	326.5	312.9	307.6
55°	1708.8	537.9	296.1	321.3	346.4	299.3	292.0	289.9	284.6	272.1	269.0
57.5°	1353.1	394.5	222.9	250.1	294.0	254.3	253.2	243.8	230.2	220.8	220.8
60°	804.8	227.1	140.2	152.8	194.6	206.1	229.2	225.0	201.9	187.3	183.1
62.5°	367.3	117.2	89.0	91.1	104.6	134.0	180.0	208.2	175.8	150.7	148.6
65°	123.5	86.9	73.3	70.1	72.2	80.6	107.8	147.5	140.2	116.1	111.9
67.5°	75.4	77.5	69.0	63.8	63.8	62.8	61.7	66.9	82.7	80.6	81.7
70°	64.8	71.1	63.8	57.5	55.4	52.3	44.0	36.6	31.4	36.6	38.7
72.5°	52.3	56.5	54.4	49.2	44.0	39.8	31.4	24.1	17.8	15.7	15.7
75°	38.7	41.9	44.0	37.7	33.5	28.3	23.0	15.7	9.4	6.3	6.3
77.5°	28.3	31.4	32.5	29.3	25.1	19.8	14.6	10.4	5.2	2.1	2.1
80°	24.1	28.3	31.4	29.3	26.2	18.8	13.6	7.3	4.2	1.0	1.0
82.5°	23.0	28.3	31.4	28.3	25.1	17.8	13.6	8.4	3.1	1.0	1.0
85°	5.2	7.3	9.4	11.5	13.6	13.6	10.4	6.3	3.1	1.0	1.0
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)